

Gene Van Sickle  
Radio Supply Co.

FEATURES HAM GEAR  
IN THE NEWEST & FINEST  
ELECTRONIC SUPERMARKET  
— WITH PERSONAL SERVICE

LIBERAL TERMS  
LIBERAL TRADES

ON ALL

POPULAR BRANDS  
OF HAM GEAR

4131 N<sup>o</sup> KEYSTONE

OPEN DAILY

9:00 TO 6:00

INCLUDING SATURDAY

WISCONSIN

PUBLISHED BY

INDIANAPOLIS RADIO CLUB, INC.

FOUNDED IN 1914

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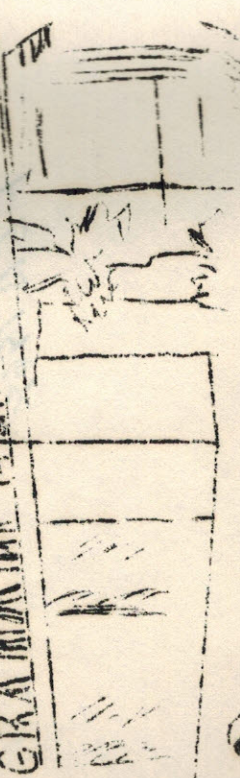


# HAM HEADQUARTERS

ALL AMATEUR RADIO KN  
FACTORY UNITS  
& ACCESSORIES

LARGE STOCK  
LONGEST TRADING  
EZ FOR PLANS

GRAMM ELECTRONICS



**GRAMM**  
*Electronics*  
SUPPLY, INC.

INDIANAPOLIS  
INDIANA  
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SUNDAY - - February 11, 1968

The above date was another memorable day in the life of IRC. On this day seven members of the club joined forces to again publish the "Amachever" after many months out of publication.

The following members gathered at the Robert Carter Co. office on Keystone Ave by the invitation of Earl Terrill, Club President for an all out effort to get the paper started; Earl Terrill, Pres., Bob Caskey, VP., Ed Healy, Sec., Bill Lueth, Treas., Al Minnick, Jerry Lucas and Alvey Pittman, Trustee. Each one had some hand in the work with Alvey doing the art work and Jerry and Al doing Stencil Typing. This project really got a big start at Directors meeting on Feb. 2, at which time it was agreed by all present to push for publication. Our President got the machine ready to go and purchased the necessary materials for printing and furnished the space to work at his company's office. We hope everyone will enjoy the "Amachever" as we hope to make it better each month, but we will need your help by sending in newsworthy items to the Editor, Jerry Lucas. The first 3 issues will be sent free after which non-members of the club if they desire can have "Amachever" mailed to them for \$1.50 per year. Members will receive their copies free. Those interested in joining the club can do so by mailing their check to William F. Lueth, Treas. at 6031 E. Pleasant Run Pkwy., S. Dr. Indianapolis, 46219 or bring it to the meeting. Dues are \$4.00 and \$1.50 initiation for new members. So, come and join us as we will welcome your attendance. The club meets on the second and fourth Fridays of the month except July and August. The meeting place is the Park Board Bldg. at 29th and Harding Sts., on the 1st floor in the south end of the building. Ample parking space is on the east side of the bldg. We are looking forward to seeing you next meeting.

All hams and anyone interested in radio are cordially invited to attend our meetings whether they are members or not.

COME AND JOIN US!!

Ed Healy, Secretary



# PROGPA REVIEW

(Because of a lone lavoff we review what has been going on Friday nights.)

September 28th '67

Many of the club members and their wives enjoyed an evening with Don Davis giving and his wife Ruth, touring Mexico via colored slides. Even then he was ready to go back!

September 22nd

Art Schultz W9nnx told about a new way of looking at circuits. We learned that all circuits can be classified as analog or digital or a combination of both. From there on it ..... well just take my word for it ... it was very interesting.

October 13th

Al Strickland W9IKZ did a bang up job of describing some of his homebrew projects. Al won't vhf almost exclusively, and he first told us about his dual conversion 50-54 mc Receiver and then his triple conversion job. After seeing the gear and the excellent workmanship you'd think he had a complete lab at his disposal, but most of the test gear is homebrew too. We're going to try to have Al back again.

October 27th

Alvey Pittman W9JJC told about his homebrew 8" Reflector Telescope and his efforts in Astrophotography (real dr)

November 10th

Pat Flanagan W9PLG described the uses of Electronics in medicine. Starting with the first use of X-rays in about 1895, up to today's fantastic developments. Vy and.

December 8th

Annual Election and electio

January 26th

Louie Linthcombe W9EAT took us to the Krannert Institute where we saw the electronic medical gear that Louie services. Nice work.

Gary Lucas, W9QIF, is back at Purdue this year, and says you can't carry Calculus, Physics, and WE and have any time left for hemming. He does report that he has a code osc. and is still hoping to get his g general eventually.

\*\*\*\*\*

After the club meeting the other night, Art Schultz asked me if I could tell him quickly how to arrive at a certain resistance, given a handful of like resistors to be connected in series or parallel.

Say for instance, you need 47 ohms and have a number of 10 ohm resistors, how do you connect them? No fair cutting and trying as I have been doing for forty years.

The answer- simple, just make a fraction with the numerator the value you want, and the denominator, (that's the one on the bottom) the value of the resistors you have, like so,

$$\frac{47}{10} = 4 + \frac{7}{10} = 4 \text{ resistors in series invert}$$

$$\frac{10}{7} = 1 + \frac{3}{7} = 1 \text{ resistor in parallel, invert}$$

$$\frac{7}{3} = 2 + \frac{1}{3} = 2 \text{ resistors in series, invert}$$

$$\frac{3}{1} = 3 = 3 \text{ resistors in parallel}$$

Try it, if you don't believe me, it's worked every time for me. I made a sheet with these directions for use by the electronic technicians at the shop. They had been cutting and trying for years, as I had been.

de W9APJ

NOTICE--- Please address all complaints concerning this publication to the employment dept. of ANA-CROWER---We can use some help from anyone who feels that he can do better.

\*\*\*\*\*

Better to keep your mouth shut, and be thought a fool, than to open it and remove all doubt.







Ed Healy, W9TJR, and Tom Powell, K9IPV are building  
HW-16 Heathkit Transceivers for 30-40-15 CW.  
If you run into trouble, fellow, read the article  
by our Arizona correspondent on this rig, in one  
of the popular radio magazines- Radio and TV  
Experimenter I think it is.

\*\*\*\*\*

This month's Noodle Nudger-

German Dilldock, W9IUN, has a forty foot  
tower in the middle of a forty foot square plot  
of ground. He wants to place four guys from the  
top of the tower to the ground as far from the  
tower as possible. Assume one foot of wire is used  
for wrapping at each end of each guy, how much  
wire does Germ need?

Answer next month.

\*\*\*\*\*

There's a new disease going round, and one of  
the best prescriptions to-date for a cure is the  
license manual. We learned yesterday, when we  
complained to one of the local radio emporiums-  
because they were out of them- that they sold the  
latest order of 150 manuals in less than two  
weeks. How about that? So, better get on the  
band wagon and study. If there is enough inter-  
est we will start another class. Let us know.

\*\*\*\*\*

Several new pieces of sir fm gear are in the  
process of being put on the air. Bob Osterhouse,  
Jerry Lucas, and Alvey Pittman have all acquired  
gear through Ed Ward, and as soon as the bugs are  
eradicated and crystals obtained, they will be on  
the air. See you on 52.525 mcs.

\*\*\*\*\*

There is no job a man can't do, if he doesn't mind  
who gets the credit.

\*\*\*\*\*

\*\*\*\*\* Splatter \*\*\*\*\*

Howard Severeid, W9DPL, reports he has been on the  
160 meter band the past five weeks, using 25 watts  
input to a Johnson Navigator CV VFO rig. The ant-  
enne is the regular station 30 meter inverted vee  
40 feet high at the apex and sloping to 8 feet off  
the ground at each end of the vee. The rcvr is an  
old 70-129-X. It has no bandspread at all on 160.  
Frequency is checked by listening to the mtr's  
second harmonic on the station's Collins S line  
equipment 75S-33 rcvr. Keying is also checked in  
this manner. Since the 75S-33 is used for frequency  
and keying monitor a converter in front of the  
rcvr would be fine, so one has been ordered that  
covers a 200 kc. band, 1000 to 2000 kcs. with out-  
put at around 3500 kcs. So far, many east coast  
, Gulf coast, and some stations west of the Miss-  
issippi have been worked. Many CV/M, SS3/CV and  
SS3/AM QSOs have been heard. About 15 states have  
been worked with a minimum of time an effort.

\*\*\*\*\*

Since the last issue, a lot of new antennas have  
gone up. Harry Butler, W9OVF has a new Moseley  
tri-bander up about 55 feet, Howard Severeid, W9DPL  
has a new Moseley Classic 33 beam up about the  
same distance, Claude Richie, W9TKV, has foiled  
the termites by replacing his pole, and Alvey  
Pittman has had his beam down for repair. Alvey  
reports the SWR as less than 1:1--well almost!

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The TWT-Jr. of W9APJ is leaning over in undignified  
repose. No, it didn't blow over, but was taken  
down last fall to correct some over optimistic  
engineering calculations. Will the Indiana winter  
winds shear off a 1/4 inch screw? Quod erat demon-  
strandum. It will. The antenna will be re-erected  
after replacing the TV type rotator with a prop  
pitch motor, the aluminum tubing upright with  
1 inch galvanized pipe, and the 1/4 inch screw  
with taper pins or welding. The engineering  
calculations will be considerably more pessim-  
istic this time.

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## TWENTY YEARS AGO

Harvey Rockwell, a consulting engineer presented a program on the proximity fuse. This was some of the miniaturization to come out of WW II research. This was a modified form of Radar because contained within the projectile was a transmitter emitting a signal and a receiver to detect the reflected wave and hence fire the explosive charge when an object came within a set distance. The club was treated to a tour of the telephone building to inspect long distance telephoning and to see the new installation of base to car telephoning which had just been installed. This was followed the next week by Birely Whaley of the Indianapolis Power & Light talking on their new installation of FM dispatching. Tom Wonnell and Gerald Fenimore gave a talk and demonstrated the matching of feed lines to antennas.

It was noted in the first of ads to be run in Amateurs that the old Annis built Naval Res. transmitter which had served for so many years were being offered for sale. Alvey Pittman, W9JJC worked his first W6 and 7 and was reported to be still in shock 3 days later. Steve Hritsko, W9SFR reported the addition of a YL Jr. ovr. with Dad, Mom and the new one all doing well. Not to be outdone, Toom Wonnell, W9WOA reported a new harmonic, a boy, with all doing well.

Two Meter activity was reported with 21 Transmitters but there seemed to be dearth of receivers. W9DPL, Ward Secoreld was on 80, 40 and 10 CM.

Wedding bells were ringing for W9FOS, Nelson Trusler who was then living in Washington, D.C. area. It was noted that the bride should keep the soldering iron hidden. Behind this lies a story as this warning was given to the bride because it was not so long before the wedding that Nelson took up his trusty iron and soldered a lead to the element. It seemed strange to him that it would not work thereafter and he was finally told by a kind person that xtal milos and hot irons should never meet.

Ray Forbes, W9HNS, had a 522 on 145.8 MC. What ever became of that outfit Ray?

Dear Old Days  
Your Old Friend  
W9HNS

This has been —  
An Amateur Printing Job

By Amateurs  
For Amateurs

We know a club paper is  
vital to a successful

club operation  
So we'll try again to  
keep it coming to you

Club Meetings On 2nd & 9th Feb  
For Bobbed Bldg  
29th St, Hocking